Submission	Fee	Received	
SOT Abstra	ct Nu	umber	

_ 5. Reactive Intermediates

_ 6. Genotox/Mutagenesis

__ 8. Reproductive/Teratology

9. Cardiovascular/Renal

7. Carcinogenesis

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No 1896

___ 23. Halogenated Hydrocarbons

25. Biomaterials/Medical Devices

(One topic only)

26. Communication/Education

_ 24. Food/Drugs

27. OTHER:

SOCIETY OF TOXICOLOGY

[Any correspondence regarding your] abstract must reference this number.

ABSTRACT FORM FOR THE 1988 ANNUAL MEETING

Read carefully the abstract instructions (attached). Follow format for heading. Original must be on this form. Leave a double space between heading and abstract. Text of abstract must be single spaced. There will be a charge of \$25 for any abstract that must be retyped. Leave no margins—type must be within blue rectangle. Single space, except for double space between body of text and authors. Use type no smaller than 12-pitch. Proof carefully.

Deadline for receipt in Executive Secretary's office is October 16, 1987. Submit original and one copy only, together with your submission check

fee of \$25 (no purchase orders accepted). 1. Name and address of first (presenting) author: Senior (first) authors can submit only one abstract for the meeting. PYRETHROID INSECTICIDES ALTER **MEMBRANE** POTENTIAL IN FISH AND RAT BRAIN SYNAPTOSOMES. Janis T. Eells J T Eells and P A Bandettini. Medical College of Wisconsin. Milwaukee, WI. Organization: Medical College of Wisconsin Sponsor: Vodicnik. Address: 8701 Watertown Plank Road Pyrethroid insecticides modify the ionic permeability of nerve membranes Milwaukee. 53226 producina City State Zlp Code distinctive poisoning syndromes in insects, fish and mammals. Fish are more sensitive USA than mammals to pyrethroids. Country The aim of this investigation was to compare the actions of 257-8632 414 the pyrethroid, deltamethrin (DM), on membrane χ potential in trout and rat brain synaptosomes. 2. Membership status: SOT member _ Non-member Abstracts must have an SOT member (not a student member) as an author or be sponsored by a member. If sponsored, the SOT member sponsor must sign below: ³H-tetraphenylphosphonium of (TPP) was used to estimate membrane potential. In trout synaptosomes, DM decreased TPP accumulation in contrast to its actions in rat Signature of SOT member sponsor synaptosomes where an increase in TPP accumulation was observed. These data indicate Jo Vodicnik DM depolarized fish Typed name of SOT member sponsor synaptosomes and hyperpolarized rat synaptosomes. hyperpolarizing effect of DM in rat synapto-3. Consider this abstract for selection for the Plenary Session: somes was reversed by the addition of the sodium channel activator, veratridine (Vtd), 4. Undergraduate and graduate students and post-doctoral felresulting in a decrease in TPP accumulation lows are also requested to check one of the spaces below: greater than that observed with Vtd alone. Undergraduate _ Graduate Fish brain synaptosomes were more sensitive to Postdoctoral the depolarizing actions of DM and aconitine 5. The Program Committee reserves the right to assign papers to than rat brain synaptosomes either a platform or poster session. Please indicate your prefersuggesting ence below and whether you wish to withdraw your paper if species difference in sodium channel function. your choice cannot be met: The mechanism of the unusual hyperpolarizing Platform Poster action of DM on rat synaptosomes is under Either Withdraw, if choice cannot be met investigation. (ES 01985, NSF-OCE 8713027) 6. Select from the list below the session topic that best suits your paper. Specify your first and second choice or specify another possible session topic area under "other." Specify only two choices. **SESSION TOPICS** 1. General/Methods ___ 10. Inhalation/Respiratory Systems _ 19. Endocrine System _ 2. Aquatic/Environmental ____ 11. Hematologic _ 20. Metals/Inorganic 3. Molecular/Cellular 12. Dermal/Ocular __ 21. Pesticides 4. Biotransformation/Disposition _ 13. Hepatic/GI System ___ 22. Solvents

Return this form by October 16, 1987, to: Program Committee, % Executive Secretary, Society of Toxicology, 1133 Fifteenth Street, N.W., Suite 1000, Washington, D.C. 20005 (202/293-5935).

_ 14. Neurochemistry

_ 15. Neuropathology

_ 18. Immune System

... 17. Behavior

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